City of Chattanooga, TN

Personnel Class Specification

CLASS CODE 1811

FLSA: Exempt

CLASSIFICATION TITLE: AIR POLLUTION CONTROL ENGINEER

PURPOSE OF CLASSIFICATION

The purpose of this classification is to evaluate industrial air emissions sources for regulatory compliance, to coordinate the air pollution control permitting process, to investigate air pollution complaints, and to conduct modeling and engineering analysis which requires an understanding of related engineering principles, practices, and applications.

ESSENTIAL FUNCTIONS

The following duties are normal for this position. These are not to be construed as exclusive or all-inclusive. Other duties may be required and assigned.

Inspects industrial air emissions sources to determine compliance with or violations of applicable air pollution control ordinances, laws and regulations; identifies air pollution sources and specific pollutants; prepares inspection reports.

Evaluates air pollution source plans for process installation and modification.

Provides technical support in meetings and discussions with regulatory agencies, industry representatives, Bureau staff, city and county officials regarding air pollution and emissions activities.

Reviews and processes applications for air pollution control permits and conducts related inspections.

Educates and informs the regulated community and the general public on air pollution prevention and compliance.

Calculates quantitative air emissions from air pollution sources; quantifies the opacity of air pollution emissions to determine compliance.

Prepares technical engineering reports and drafts correspondence, memoranda and other documents.

Coordinates inspection, permitting and enforcement activities with state EPA officials.

Presents inspection reports and permit review findings to Bureau Director; assists in identifying solutions for emissions process modifications and compliance measures.

Supervises air emissions testing to ensure reliability of results and compliance with approved EPA test methods.

Meets with industry representatives to present engineering findings; provides technical assistance to discuss emissions source modifications; monitors cases for compliance and follow-up.

Conducts air quality dispersion modeling to support air pollution evaluations.

Investigates air pollution complaints; analyzes findings and develops recommendations; prepares investigation reports.

Notifies industries of permit violations; assists in recommending enforcement action for noncompliance; conducts follow-up and monitors cases to ensure that corrective actions are taken.

Analyzes air pollution emissions to determine adverse health and environmental impact.

Inputs data into database for emissions inventory.

Patrols vicinity of air pollution sources to detect odors and to visibly observe emissions.

Reviews and processes applications for open and controlled burning permits.

Reviews ordinances, laws and regulations to maintain knowledge and understanding of air pollution control policies and compliance requirements.

Reviews technical journals and textbooks to maintain knowledge and understanding of engineering practices, processes, and standards as they apply to emissions and air pollution control.

Represents the department at various conferences and workshops.

ADDITIONAL FUNCTIONS

Performs other related duties as required.

MINIMUM QUALIFICATIONS

Bachelor's degree in mechanical, chemical or environmental engineering or closely related field; supplemented by one (1) to two (2) years previous experience and/or training involving related work in process engineering and regulatory compliance; or any equivalent combination of education, training, and experience which provides the requisite knowledge, skills, and abilities for this job. Must possess and maintain a valid Tennessee driver's license. Certification as an Engineer in Training in the state

of Tennessee is required. Possession of a Visible Emissions Evaluation Certification is preferred.

PERFORMANCE APTITUDES

Data Utilization: Requires the ability to evaluate, audit, deduce, and/or assess data using established criteria. Includes exercising discretion in determining actual or probable consequences and in referencing such evaluation to identify and select alternatives.

Human Interaction: Requires the ability to apply principles of persuasion and/or influence over others in a supervisory capacity.

Equipment, Machinery, Tools, and Materials Utilization: Requires the ability to operate and control the actions of equipment, machinery, tools and/or materials requiring complex and rapid adjustments.

Verbal Aptitude: Requires the ability to utilize a wide variety of reference, descriptive, advisory and/or design data and information.

Mathematical Aptitude: Requires the ability to perform addition, subtraction, multiplication and division; ability to calculate decimals and percentages; may include ability to perform mathematical operations involving basic algebraic principles and formulas, and basic geometric principles and calculations.

Functional Reasoning: Requires the ability to apply principles of rational systems; to interpret instructions furnished in written, oral, diagrammatic, or schedule form; and to exercise independent judgment to adopt or modify methods and standards to meet variations in assigned objectives.

Situational Reasoning: Requires the ability to exercise judgment, decisiveness and creativity in situations involving the evaluation of information against sensory, judgmental, or subjective criteria, as opposed to that which is clearly measurable or verifiable.

ADA COMPLIANCE

Physical Ability: Tasks require the ability to exert very moderate physical effort in light work, typically involving some combination of stooping, kneeling, crouching and crawling, and which may involve some lifting, carrying, pushing and/or pulling of objects and materials of moderate weight (12-20 pounds).

Sensory Requirements: Some tasks require the ability to perceive and discriminate colors or shades of colors, sounds, odor, depth, and visual cues or signals. Some tasks require the ability to communicate orally.

Environmental Factors: Performance of essential functions may require exposure to adverse environmental conditions, such as dirt, dust, pollen, odors, wetness, humidity, rain, fumes, temperature and noise extremes, or toxic agents.

Chattanooga, Tennessee, is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer.